SUMMARY OF THE 2002 CDC SEXUALLY TRANSMITTED DISEASES (STD) TREATMENT GUIDELINES STD CONTROL PROGRAM – RHODE ISLAND DEPARTMENT OF HEALTH

These guidelines for the treatment of STDs reflect the recommendations of the 2002 CDC STD Treatment Guidelines and subsequent revisions. These are outlines for quick reference that focus on STDs encountered in an outpatient setting and are not an exhaustive list of effective treatments. Please refer to the complete document of the CDC for more information or call the STD Program. These guidelines are to be used for clinical guidance and are not to be construed as standards or inflexible rules. Clinical and epidemiological services are available through your State STD Program and staff is also available to assist healthcare providers with confidential notification of sexual partners of patients infected with STDs and HIV. Please call for any assistance. PHONE: (401) 222-2577. FAX: (401) 222-2488. STD CONTROL PROGRAM, RHODE ISLAND DEPARTMENT OF HEALTH, 3 CAPITOL HILL, PROVIDENCE, RI 02907.

DISEASE	RECOMMENDED TREATMENT	ALTERNATIVES	
SYPHILIS (see CDC guidelines for follow-up recommendations)			
PRIMARY, SECONDARY OR EARLY LATENT		(For penicillin allergic non-pregnant <u>adult</u> patients)	
(<1 YEAR) Adults	Benzathine penicillin G 2.4 million units IM in a single dose	• Doxycycline 100 mg orally 2 times a day for 14 days <i>OR</i> Ceftriaxone 1 g daily IV or IM for 8-10 days <i>OR</i> Azithromycin 2 g orally single dose (use with caution*)	
Children	Benzathine penicillin G 50,000 units/kg IM, up to the adult dose of 2.4 million units in a single dose	· · · · · · · · · · · · · · · · · · ·	
LATE LATENT (> 1 YEAR) OR LATENT OF			
UNKNOWN DURATION Adults	Benzathine penicillin G 2.4 million units IM for 3 doses, 1 week apart (total 7.2 million units)	Doxycycline 100 mg orally 2 times a day for 28 days for adults only	
Children	Benzathine penicillin G 50,000 units/kg IM up to the adult dose of 2.4 million units, administered as three doses at 1 week intervals (total 150,000 units up to the adult total dose of 7.2 million units)		
NEUROSYPHILIS	Aqueous crystalline penicillin G 18 - 24 million units per day, administered as 3-4 million units IV every 4 hours or continuous infusion, for 10-14 days	Procaine penicillin 2.4 million units IM once daily plus probenecid 500 mg orally 4 times a day, both for 10-14 days	
HIV INFECTION	For primary, 2 nd and early latent syphilis: Treat as above. Some specialists recommend three doses. For late latent syphilis or syphilis of unknown duration: perform CSF examination before treatment		
PREGNANCY	Penicillin is the <u>only</u> recommended treatment for syphilis during pregnancy. Women who are allergic should be desensitized and then treated with penicillin. Dosages are the same as in non-pregnant patients for each stage of syphilis. ¹		
GONOCOCCAL INFECTIONS ²	r is a real state of the state		
ADULTS			
CERVIX, URETHRA, RECTUM	Ceftriaxone 125 mg IM once OR Ceftxime 400 mg orally once OR Ciprofloxacin ^{4,5} 500 orally once OR Ofloxacin ^{4,5} 400 mg orally once OR Levofloxacin ^{4,5} 250 mg orally once	Spectinomycin ³ 2 g IM once (see CDC guidelines for other cephalosporins and quinolones)	
PHARYNX	Ceftriaxone 125 mg IM once <i>OR</i> Ciprofloxacin ^{4,5} 500 mg orally once		
Conjunctiva	Ceftriaxone 1 g IM once plus lavage the infected eye with saline solution once		
CHILDREN (<45KG)	G 0 : 105 PM	G (: :340 / D)	
VAGINA, CERVIX, URETHRA, PHARYNX, RECTUM NEONATES	Ceftriaxone 125 mg IM once	Spectinomycin ³ 40mg/kg IM once (maximum 2 g)	
Ophthalmia Neonatorum ⁶ Infants born to infected mothers	Ceftriaxone 25-50 mg/kg IV or IM once (maximum 125 mg)		
PREGNANCY	Ceftriaxone 125 mg IM once	Spectinomycin ³ 2 g IM once	
CHLAMYDIAL INFECTIONS			
ADULT	 Azithromycin 1 g orally single dose OR Doxycycline 100 mg orally 2 times a day for 7 days 	 Erythromycin base 500 mg orally 4 times a day for 7 days <i>OR</i> Erythromycin ethylsuccinate 800 mg orally 4 times a day for 7 days <i>OR</i> Ofloxacin⁴ 300 mg orally 2 times a day for 7 days <i>OR</i> Levofloxacin⁴ 500 mg orally once a day for 7 days 	
CHILDREN		<u> </u>	
≤ 45 KG	 Erythromycin base or ethylsuccinate 50 mg/kg/day orally divided into four doses daily for 14 days⁷ Azithromycin 1 g orally single dose Azithromycin 1 g orally single dose 		
> 8 YEARS OF AGE	Doxycycline 100 mg orally 2 times a day for 7 days		
→ PREGNANCY	Erythromycin base 500 mg orally 4 times a day for 7 days <i>OR</i> Amoxicillin 500 mg orally 3 times a day for 7 days	Erythromycin 250 mg orally 4 times a day for 14 days	

^{*}Treatment failures with azithromycin have been reported in 2003 and are being investigated (MMWR 2004;53:197-8). *T. pallidum* strains resistant to azithromycin have recently been documented (NEJM 2004;351:454-8.). **Doxycycline is the preferred alternative.** If neither penicillin nor doxycycline can be administered, and azithromycin is considered, providers should contact the STD Program and inform patients that cases of resistance have been found and that a close follow-up is essential to ensure successful treatment.

¹Tetracycline/doxycycline contraindicated; erythromycin not recommended because it does not reliably cure an infected fetus; data insufficient to recommend azithromycin or ceftriaxone.

² Treat also for *Chlamydia trachomatis* if not ruled out by a sensitive test.

³ Not effective against incubating syphilis and is less effective against pharyngeal gonorrhea.

⁴Quinolones are contraindicated in pregnant women. No joint damage attributable to quinolone therapy has been observed in children treated with prolonged ciprofloxacin regimens. Thus children who

weigh \geq 45 kg can be treated with any regimen recommended for adults.

Quinolones should not be used for gonococcal infections acquired in Asia or the Pacific, including Hawaii. In addition, use of quinolones is probably inadvisable for treating infections acquired in

CA and MA and in other areas with increased prevalence of quinolone resistance, CDC no longer recommends quinolones for the treatment of gonorrhea in men who have sex with men.

⁶ Hospitalize and evaluate for disseminated infection.

⁷ The efficacy of treating neonatal chlamydial conjunctivitis and pneumonia is about 80%. A second course of therapy may be required. An association between oral erythromycin and infantile hypertrophic pyloric stenosis (IHPS) has been reported in infants aged less than 6 weeks treated with this drug. See CDC guidelines for more information.

DISEASE		RECOMMENDED TREATMENT			ALTERNATIVES		
NONGONOCOCCAL URETHRITIS		hromycin 1 g orally single dose ycycline 100 mg orally 2 times a da		Erythromycin base ⁸ 500 mg orally 4 times a day for 7 days <i>OR</i> Erythromycin ethylsuccinate ⁸ 800 mg orally 4 times a day for 7 days <i>OR</i> Ofloxacin ⁴ 300 mg orally 2 times a day for 7 days <i>OR</i> Levofloxacin ⁴ 500 mg orally once a day for 7 days			
EPIDIDYMITIS9	Ceftriaxone 250 mg IM single dose PLUS Doxycycline 100 mg orally 2 times a day for 10 days			Ofloxacin ⁵ 300 mg orally twice daily for 10 days <i>OR</i> levofloxacin ⁵ 500 mg orally once a day for 10 days			
PELVIC INFLAMMATORY DISEASE ¹⁰ (outpatient management) These regimens to be used with or without metronidazole 500 mg orally twice a day for 14 days	Ofloxa Levofl REGI Ceftria Cefoxi Other t PLUS	MEN A cin ^{4,5} 400 mg orally 2 times a day fo oxacin ^{4,5} 500 mg orally once a day f MEN B xone 250 mg IM once OR tin 2 g IM once plus probenicid 1 g hird generation cephalosporin ycline 100 mg orally 2 times a day	for 14 days orally once <i>OR</i>				
PREGNANCY AND PID		ts should be hospitalized and trea priate recommended parenteral F ines)					
CHANCROID	Azit Ceft Cipr Eryt	hromycin 1 g orally single dose	es a day for 7 days				
HERPES SIMPLEX VIRUS (for non-pregnate				nent of her	pes in pregnancy and in th	e neonate	
First clinical episode of genital herpes	Valac	ovir 400 mg orally 3 times a day for 200 mg orally 5 times a day for yclovir 1 g orally 2 times a day for iclovir 250 mg orally 3 times a day	7-10 days <i>OR</i> 7-10 days <i>OR</i>				
Episodic Recurrent Infection	Acyclovir 800 mg orally 2 times a day for 5 days OR 400 mg orally 3 times a day for 5 days OR 200 mg orally 5 times a day for 5 days OR Famciclovir 125 mg orally 2 times a day for 5 days OR Valacyclovir 500 mg orally 2 times a day for 3-5 days OR						
Daily Suppressive therapy	1 g orally once a day for 5 days Acyclovir 400 mg orally 2 times a day OR Valacyclovir 500 mg orally once a day OR 1 g orally once a day OR						
HIV INFECTION	Higher c	Famciclovir 250 mg orally 2 times a day Higher doses and/or longer therapy recommended. See 2002 CDC					
PEDICULOSIS PUBIS	 guidelines. Permethrin 1% cream rinse applied to affected area and washed off after 10 minutes <i>OR</i> Lindane¹¹ 1% shampoo applied for 4 minutes to the affected area then thoroughly washed off <i>OR</i> Pyrethrins with piperonyl butoxide applied to affected area and washed off after 10 minutes 						
SCABIES	Permethrin 5% cream applied to all areas of the body from the neck down and washed off after 8-14 hours			Lindane ¹¹ 1% 1 oz of lotion or 30 g of cream applied thinly to all areas of the body and thoroughly washed off after 8 hours <i>OR</i> Ivermectin 200ug/kg orally, repeated in 2 weeks			
BACTERIAL VAGINOSIS (BV)	 Metronidazole¹² 500 mg orally 2 times a day for 7 days <i>OR</i> Clindamycin cream 2% intravag, at bedtime for 7 days <i>OR</i> Metronidazole gel 0.75% intravag, once a day for 5 days 			Metronidazole ¹² 2 g orally in a single dose <i>OR</i> Clindamycin 300 mg orally 2 times a day for 7 days <i>OR</i> Clindamycin ovules 100 g intravag, at bedtime for 3 days			
PREGNANCY AND BV ¹³	Clinda	Metronidazole ¹² 250 mg orally 3 times a day for 7 days <i>OR</i> Clindamycin 300 mg orally 2 times a day for 7 days					
TRICHOMONIASIS	Metronidazole ¹² 2 g orally single dose			Metronidazole ¹² 500 mg orally 2 times a day for 7 days			
External		GENITAL WARTS Urethral Meatus	Vaginal		Anal	Oral	
• PROVIDER-ADMINISTERED Cryotherapy with liquid nitrogen or cryoprobe. Repeat apprevery 1-2 weeks if necessary OR Trichloroacetic acid (TCA) or bichloroacetic acid (BC 90%. Apply small amount only to warts. Allow to dry, amount applied, powder with tale, baking soda or liquid so weekly if necessary OR Podophyllin resin 10%-25%¹⁴ in a compound tincture of Allow to air dry. Limit application to < 10 cm² and to ≤ 0.5 off 1-4 hours after application. Repeat weekly if necessary Surgical removal	FA) 80% - If excess ap. Repeat f benzoin. ml. Wash	Cryotherapy with liquid nitrogen OR Podophyllin 10%-25% ¹⁴ in a compound tincture of benzoin. Treatment area must be dry before contact with normal mucosa. Repeat weekly if necessary.	Cryotherapy with liquic Cryoprobe not recomme of perforation and fistula formation) OR TCA or BCA 80%-90% small amount only to wa excess amount applied, I with talc, baking soda or soap. Repeat weekly if n	nded (risk a 6. Apply arts. If powder r liquid	Cryotherapy with liquid nitrogen OR TCA or BCA 80%-90%. Apply small amount only to warts. If excess amount applied, powder with talc, baking soda or liquid soap. Repeat weekly if necessary.	Cryotherapy with liquid nitrogen OR Surgical removal	
• PATIENT-APPLIED Podofilox 0.5% solution or gel ¹⁴ . Apply 2 times a day for a followed by 4 days of no therapy. This cycle can be repeated necessary for up to 4 times. Total wart area should not excee and total volume applied daily not to exceed 0.5 ml. Imiquimod 5% cream ¹⁴ . Apply once daily at bedtime 3 time for up to 16 weeks. Wash treatment area with soap and was the s	d as ed 10 cm ² OR nes a week						

hours after application.

If this dose cannot be tolerated, than erythromycin base 250 mg orally or erythromycin ethylsuccinate 400 mg orally 4 times a day for 14 days can be used.

The recommended regimen of ceftriaxone and doxycycline is for epididymitis most likely caused by GC or CT infection. The alternative regimen of ofloxacin or levofloxacin is recommended if the epididymitis is most likely caused

by enteric organisms, or for patients allergic to cephalosporins and/or tetracycline. See note # 5 on quinolone resistant Neisseria gonorrhoeae.

- Whether the management of immunodeficient HIV-infected women with PID requires more aggressive intervention has not been determined.
 Not recommended for pregnant and lactating women or for children < 2 years of age.
 Multiple studies and meta-analysis have not demonstrated a consistent association between metronidazole use during pregnancy and teratogenic or mutagenic effects in newborns.
 Screening for, and treatment of, BV in pregnant women at high risk for premature delivery is recommended by some experts and should occur at the first prenatal visit. Intravaginal treatment during pregnancy (at high or low risk for premature delivery) not recommended.
 Safety during pregnancy not established.